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CHHIARKAWP
BU KHATNA

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CHEILARKAWP

BU KHATNA

By

Thanthama, B.A., B.T.
Council Education Officer,



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The District Council, Aizawl, Mizoram.
1958

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Thanthuama, B A , B T.
Council Education Officer

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THUHMAHRUAI

Tun hma lam sawng kha chuan Primary zirlai atân Chhiarkawp Bu pathum (Bu khatna, Bu hnih-na, Bu thumna) chauh kan nei a Amaherawh-chu Kamina Text Book Committee chuan the tâwk lovin a hria a Pawl hrang hrang tân bu hrang theuh zel, (inhman tawm tawh lova) buatsaih târa min tih angin ka han siam tan a. Zirtirtu leh naupangto tân pawh a remchân sâwk hle tawh ka beisei

Tuna mi hi a tan tirbna a nih avângin a the tâwk lovin a famkim tâwk lo pawh a ni mai thei a, chuvângin tupawhin a that zâwkna dân tûr rawtna te min han neihpui theih chuan mi han hriattir thei ula ka lâwm ngawt ang

He Chhiarkawp Bu Khatna hi Zo ram zirnaia hmasawn zêl nâna a tangkaipui ka beisei

Dated Ayal.
The 7th October, 1963.

Thanthuma
Education Officer
Mizo District Council.

SYLLABUS.

Class I — Chhiarkawp bu khatna a pumia.
Number 10,000 thlenga ziak leh chhiar
leh a awmzia hriat ohiantir tûr a ni.
Figure 1—1,000 thleng hmangin belh
paih, puntir leh sem tihtur tur a ni
Tangka Tangka belh, paih, puntir,
leh sem tihtir tûr a ni
Hmun 16×10 thlenga zirtir tûr a
ni. Rilru ohhiarkawp 100 thlengin
belh, paih, puntir leh sem tihtir
tur.

BUNG I

BELH

Number tman dân chu naupangten p^{aw}l huiam lamah an lo hre nial nual tawh a. Number hian z^{aw}kte hman dân leh an en t^{ur}te chu chiang taka an hriat fish theihna t^{ur}m ch^{ung} number te leh chhinchhiahnate chu simkhur takin kan zirt^{ir} t^{ur} a ni.

Entirna — Number te chu a indawt dân taka kan z^{ak} thiam theih nân entirna ang hian t^{uh} fo t^{ur} a ni = 425, 264, 43, 123 hi belh ta na.

Number hrang hrangte chu kan belh Z S P
d^{awn} chuan entirnaa mi ang hian °

“pa” hmuna mi te, “sawm” hmuna 4 2 5

mi te, “za” hmuna mi te chu in- 2 6 4

z^{awn} theuhvin kan dah t^{ur} a ni 4 3

1 2 3

Tichuan “pa” z^{awn}na mi 8 5 0

zawng zawng chu kan belh ang a,

5+4+3+3=15 a ni a, “pa” hmuna mi 5 hi “pa”

hmuna kan dah ang a, sawm hmuna mi “1”

(sawm khat) hi kalpui a ni (Sawm hmuna chung

lama figure t^o bika kan dah ang khian) Sawm

hmuna mi hi kan belh leh hunah kan belh t^{el} ang

Tichuan sawm hmuna mi zawng chu 1+2+6+4+2

=15 a lo ni ang Tichuan "5" kh "sewm" hmuah kan dah ang a, "1" leh bi chu kalpui a ni leh ang. Chutiang neh "ze" hmuna ni chu kalpui nen kan belh leh ang a, $1+4+2+1=8$ a lo ni ang Tichuan a chbuek chu 855 a lo ni ang. Number engzat pawh belh dawm la hetiang zel hian a kal ang.

TIHTUR 1

A

Belh rawh —

| | | | | | | | |
|----|----|-----|----|----|----|----|----|
| 1. | 13 | 2 | 72 | 3 | 73 | 4 | 84 |
| | 24 | | 85 | | 97 | | 17 |
| | 30 | | 90 | | 16 | | 52 |
| | 14 | | 36 | | 68 | | 78 |
| 5 | 57 | 6. | 27 | 7 | 21 | 8 | 96 |
| | 46 | | 72 | | 53 | | 81 |
| | 93 | | 18 | | 38 | | 45 |
| | 16 | | 19 | | 73 | | 78 |
| 9, | 20 | 10. | 39 | 11 | 54 | 12 | 89 |
| | 38 | | 29 | | 90 | | 24 |
| | 47 | | 72 | | 71 | | 74 |
| | 93 | | 45 | | 29 | | 93 |
| | | | 13 | | 36 | | 35 |

CHHIARKAWP BU KHATNA

3

| | | | | | | | |
|-----|----|-----------------|----|----|----|-----|----|
| 13 | 28 | 14. | 59 | 15 | 25 | 16. | 45 |
| | 77 | | 88 | | 27 | | 17 |
| | 50 | | 17 | | 48 | | 18 |
| | 33 | | 26 | | 16 | | 13 |
| | 86 | | 28 | | 36 | | 14 |
| 17 | 66 | 18 ^v | 45 | 19 | 62 | 20 | 42 |
| | 39 | | 58 | | 87 | | 24 |
| | 74 | | 34 | | 49 | | 85 |
| | 50 | | 22 | | 36 | | 48 |
| | 23 | | 67 | | 55 | | 34 |
| 21. | 65 | 22. | 43 | 23 | 68 | 24. | 56 |
| | 89 | | 22 | | 24 | | 49 |
| | 38 | | 85 | | 42 | | 17 |
| | 76 | | 74 | | 25 | | 21 |
| | 45 | | 69 | | 28 | | 36 |

AW

| | | | | | | | |
|----|-----|----|-----|---|-----|---|-----|
| 1. | 452 | 2 | 374 | 3 | 418 | 4 | 519 |
| | 378 | | 516 | | 372 | | 327 |
| | 117 | | 93 | | 205 | | 102 |
| 5. | 135 | 6. | 384 | 7 | 527 | 8 | 373 |
| | 483 | | 253 | | 123 | | 259 |
| | 329 | | 169 | | 99 | | 121 |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 9. | 253 | 10. | 374 | 11. | 456 | 12. | 129 |
| | 149 | | 289 | | 217 | | 297 |
| | 517 | | 132 | | 309 | | 531 |
| 13. | 229 | 14. | 384 | 15. | 392 | 16. | 18 |
| | 347 | | 47 | | 324 | | 109 |
| | 199 | | 318 | | 109 | | 310 |
| 17. | 256 | 18. | 196 | 19. | 432 | 20. | 167 |
| | 313 | | 97 | | 256 | | 259 |
| | 99 | | 308 | | 139 | | 381 |
| 21. | 455 | 22. | 439 | 23. | 253 | 24. | 99 |
| | 366 | | 87 | | 514 | | 107 |
| | 199 | | 108 | | 109 | | 713 |

B

Figure-in ziak rawh

1. Za leh sawm.
 2. Zahnih leh sawmthum leh pali.
 3. Zali leh sawmli leh pali.
 4. Zaruk leh sawmnga leh pali
 5. Zathum leh sawmriat leh pakua.
 6. Zanga leh sawmli leh paruk.
 7. Zasarih leh panga.
 8. Zakua leh sawmli leh pariat.
 9. Zariat leh sawm leh pahnih.
 10. Sängkhat leh zahnih leh sawmthum.
 11. A thuin ziak rawh :—
- 25, 95, 101, 280, 375, 740, 879, 986, 859, 1242.

1. 68 ah hian 25 belh rawh.
2. 45 leh 60 hi engzátngé ?
3. 75 ah hian 27 belh rawh
4. Sawmhniñ leh pakhat leh sawmli leh pathum
hi engzátngé ?
5. Sawmsariñ leh pasarñ-ah hian sawmga leh
pali belh la, engzátngé ni ang ?
6. Sāwm leh pahniñ, sa leh sāwm leh panga,
sawmthum leh paruk to hi belh rawh.
7. 62 leh 28 leh 32 leh 30 belh khāwm hi eng-
zátngé ?
8. 70 ah hian 40 belh la, tin, 25 belh leh la,
engzátngé tling ang ?
9. Zanga leh sawmthum leh paruk leh 274 belh
hi engzátngé ?
10. 300 leh 495 leh 21 belhkhāwm hi engzátngé
tling ang ?

BUNG II

PAIH



Paih awmzia A chhaka square khi kan han chhiar ohuan squares paruk a awm tih chu kab hro ngbál ang a, kbíta squares 6 atang khian square 2 khi paih kan duh a, chu mi paih kan duh square-to chu lo thai háng íla, a bâng chu han chhiar íla, squares 4 a la awm tih kan hmu ang a Hei íl figure-in kan entír thun — $6-2=4$

Paih íl thil intam bleizia hriatna a ni bawh

Paih dân entirna (a) Paih málwí —

S P

4 5

P



2 4

—

2 1

S



Ó atanga 4 kan paih chuan (P square khi en ía) 1 chauh a bâng ang, $5-4=1$ Tin, (sáwm bí) 4 atangin (sáwm bí) 2 kan paih leh ang a, (S square khi en leh ía) 2 chauh a bâng ang, $4-2=2$. Tónah hian lei íl kan lo íl ía a ni — Sawmli

leh panga (45) atangin sawmbuuh leh pali (24)
 kan pah a, a bang chu sawmbuuh leh pakhat (21)
 a lo ni 21 chu a dikua a lo ni ta a ni.

(b) Pah pûk dân 1-na

$$\begin{array}{r} Z \ S \ P \\ 4 \ 3 \ 8 - \\ \underline{2 \ 1 \ 9} \\ 2 \ 1 \ 9 \end{array}$$

Hei hi chu pah mawl anga tih ve mai
 theih a ni lo va, tih dân dang deuh an hmang
 thin.

Hetiingin — (a chhaka figure khi en ila)
 8 atangin 9 a pah theih loh tih kan hre theuh
 ang a Chuvângin sawm bi 3 atang khian sawm
 bi 1 kan pûk a, tichuan 8 awm sa nên chuan
 18 a lo ni a, chuta tanga 9 kan pah chuan 9 a
 la bang ang— $18-9=9$ Tin, sawm bi 3 atanga
 sawm bi kan pûk avâng khân sawm bi 2 a lo
 ni tawh a, $2-1=1$ (sawm bi 1 kan pûk hók
 avâng khân 2 atanga 1 pah ang kan lo ni ta a
 nih chu)

Tin, za bia 4 atang khian za bi 2 khi kan
 pah leh a, hetiingin — $4-2=2$ a la bang a
 Chotichuan 438 atanga 219 kan lo pah chuan,
 219 a la bang tih kan lo hre thei ta a ni,

(c) Paib pôt dân 2-na —

$$\begin{array}{r} Z \ S \ P \\ 8 \ 9 \ 0- \\ 7 \ 3 \ 9 \\ \hline 1 \ 5 \ 1 \end{array}$$

Het hi paib dân chi brang ve rông a ni a,
het hi hien an ti thín —

Tôah "pa" (p) zâwnah kan paib tûr 9 hi
0 atang khian a paib theih loh va, chuwângin 10
kan ban belh ringawt a, tichuan 10 atanga 9 jaih
chu (10-9)=1 a lo ni a. Amaherawbchu a chung
zâwk 10 kan belh avâng khân a hnuaí zâwk
sâwm bi hmun (kan paib leh tûrah) 10 belh leh ve
ngoi tûr a ni Tichuan sâwm (S) hmuna 1 leh
sâwm (S) hmuna 3 chu sâwm hlir 4 a ni a,
9 atanga 4 paib chu (9-4)=5 a lo ni a, tin, 8
atanga 7 kan paib chuan 1 a lo awm a ni.

Paib rông rông hi a dik lek dik loh i briat
deh chuan, a dikna leh a hnuaí zâwk (paib tûra
zâwk) kha belh la, a chung zâwk (a paihte zâwk)
sât chiah kha (i paib dik chuan) a lo chhuak ang.

TIHTUR 2

A

Paib rawb .—

| | | | |
|-------------|--------------|--------------|----------------|
| 1. 84 62 | 7 70 29 | 13 77 43 | 19. 871 257 |
| 2. 99 77 | 8. 83 45 | 14. 91 98 | 20. 761 347 |
| 3 69 51 | 9 44 28 | 15. 85 17 | 21. 240 18 |
| 4 34 17 | 10 96 73 | 16. 88 33 | 22. 166 139 |
| 5. 86 59 | 11. 99 45 | 17. 65 28 | 23. 752 239 |
| 6. 92 55 | 12. 72 48 | 18 76 69 | 24 631 408 |

AW

Pah rawh —

| | | | |
|-----|---------|-----|-----------|
| 1. | 127— 62 | 21 | 202— 123 |
| 2 | 159— 92 | 22 | 310— 579 |
| 3. | 100— 71 | 23 | 560— 242 |
| 4 | 112— 68 | 24 | 946— 748 |
| 5. | 101— 97 | 25 | 1234— 567 |
| 6. | 382—272 | 26. | 1010— 69 |
| 7 | 546—338 | 27 | 1060— 179 |
| 8. | 300—171 | 28 | 601— 564 |
| 9. | 204— 48 | 29 | 1000— 27 |
| 10 | 500—403 | 30 | 712— 193 |
| 11. | 607—179 | 31. | 921— 899 |
| 12 | 908—127 | 32 | 623— 234 |
| 13. | 550—258 | 33. | 738— 245 |
| 14. | 600—327 | 34. | 900— 899 |
| 15 | 935—591 | 35. | 589— 377 |
| 16. | 591—268 | 36. | 1117— 900 |
| 17 | 624—158 | 37. | 1333—1245 |
| 18. | 870—456 | 38. | 1234— 567 |
| 19. | 947—848 | 39. | 1098— 729 |
| 20 | 201—164 | 40. | 1900— 899 |

B

Eng number nge tul?

- | | |
|-------------------|--------------------|
| (1) C2— ? = 17 | (5) ? — 502 = 130 |
| (2) 769— ? = 144 | (6) 445— ? = 15 |
| (3) ? — 238 = 196 | (8) 678— ? = 444 |
| (4) 780— ? = 123 | (9) 1020— ? = 100 |
| (7) 880— ? = 191 | (10) ? — 19 = 2100 |

CH

- 392 atarg hian 293 paib rawh
- 1500 atarg hian 780 paib la, engzátngé la lăng ang?
- Zah leh sawn hnih leh patlum atarg hian zatlum leh sawm paib rawh.
- 972 atang hian zariat leh sawm leh pasarih pah la, engzátngé la lăng ang?
- 856 atarg hian 656 paib la, a la bāng atang chuan 100 paib leh rawh
- Saiblum 250 ka nei a, 75 paib a, engzátngé ka la neih?
- Zesarih leh panga atang hian zahnih leh sawm paib rawh.
- Sārgkhat leh za leh sawm leh panga atang hian sāng khat leh za paib rawh.
- Sārgkhat atang hian 425 paib la, tin, 75 paib leh la, engzátngé la lăng ang?

BUNG III.

PUNTIR

Number thuhmun engemaw zât tam lam
 hmuhchhushna emaw, number pakhat ringawt, a
 vawî eng anga tam emaw, tam lam hmuhchhush-
 na awlam ber chu "PUNTIR" kan ti thin. He
 ni ohhinobhishna 'x' hi number pahuk inkâra a
 awm chuan, chu number "vawî" emaw, hmun
 emaw zât (time) ohhinobhishna a ni a, chûng
 number chu puntir tûr tihna a ni. Tichuan
 $2 \times 3 = 6$ tih chu, 2 vawî 3 chu 6 a ni, tihna a ni.

Tin, 6 hîr vawî 3 belh ta ila, $6+6+6+6+6+6+6+6=42$ a ni. Amaherawhchu puntir dân
 kan sir a, hmun kan lo hriat tawb chuan, 6 hîr
 vawî 3 xik chhuah ni chuan dân awlam zât
 puntir dân kan ti thei: $6 \times 8 = 48$. Tichuan
 "Puntir" awmzâ chu "belh kahawî" kan ti
 thei ang. He ni dân ang hian, number hian tak
 hmun huan chu awl takin kan hichhuak thei
 ni.

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-------|-------|-------|-------|-------|--------|--------|--------|
| 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 1-8 | 1-9 |
| 2-4 | 2-6 | 2-8 | 2-10 | 2-12 | 2-14 | 2-16 | 2-18 |
| 3-6 | 3-9 | 3-12 | 3-15 | 3-18 | 3-21 | 3-24 | 3-27 |
| 4-8 | 4-12 | 4-16 | 4-20 | 4-24 | 4-28 | 4-32 | 4-36 |
| 5-10 | 5-15 | 5-20 | 5-25 | 5-30 | 5-35 | 5-40 | 5-45 |
| 6-12 | 6-18 | 6-24 | 6-30 | 6-36 | 6-42 | 6-48 | 6-54 |
| 7-14 | 7-21 | 7-28 | 7-35 | 7-42 | 7-49 | 7-56 | 7-63 |
| 8-16 | 8-24 | 8-32 | 8-40 | 8-48 | 8-56 | 8-64 | 8-72 |
| 9-18 | 9-27 | 9-36 | 9-45 | 9-54 | 9-63 | 9-72 | 9-81 |
| 10-20 | 10-30 | 10-40 | 10-50 | 10-60 | 10-70 | 10-80 | 10-90 |
| 11-22 | 11-33 | 11-44 | 11-55 | 11-66 | 11-77 | 11-88 | 11-99 |
| 12-24 | 12-36 | 12-48 | 12-60 | 12-72 | 12-84 | 12-96 | 12-108 |
| 13-26 | 13-39 | 13-52 | 13-65 | 13-78 | 13-91 | 13-104 | 13-117 |
| 14-28 | 14-42 | 14-56 | 14-70 | 14-84 | 14-98 | 14-112 | 14-126 |
| 15-30 | 15-45 | 15-60 | 15-75 | 15-90 | 15-105 | 15-120 | 15-135 |
| 16-32 | 16-48 | 16-64 | 16-80 | 16-96 | 16-112 | 16-128 | 16-144 |

| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------|--------|--------|--------|--------|--------|--------|
| 1-10 | 1-11 | 1-12 | 1-13 | 1-14 | 1-15 | 1-16 |
| 2-20 | 2-22 | 2-24 | 2-26 | 2-28 | 2-30 | 2-32 |
| 3-30 | 3-33 | 3-36 | 3-39 | 3-42 | 3-45 | 3-48 |
| 4-40 | 4-44 | 4-48 | 4-52 | 4-56 | 4-60 | 4-64 |
| 5-50 | 5-55 | 5-60 | 5-65 | 5-70 | 5-75 | 5-80 |
| 6-60 | 6-66 | 6-72 | 6-78 | 6-84 | 6-90 | 6-96 |
| 7-70 | 7-77 | 7-84 | 7-91 | 7-98 | 7-105 | 7-112 |
| 8-80 | 8-88 | 8-96 | 8-104 | 8-112 | 8-120 | 8-128 |
| 9-90 | 9-99 | 9-108 | 9-117 | 9-126 | 9-135 | 9-144 |
| 10-100 | 10-110 | 10-120 | 10-130 | 10-140 | 10-150 | 10-160 |
| 11-110 | 11-121 | 11-132 | 11-143 | 11-154 | 11-165 | 11-176 |
| 12-120 | 12-132 | 12-144 | 12-156 | 12-168 | 12-180 | 12-192 |
| 13-130 | 13-143 | 13-156 | 13-169 | 13-182 | 13-195 | 13-208 |
| 14-140 | 14-154 | 14-168 | 14-182 | 14-196 | 14-210 | 14-224 |
| 15-150 | 15-165 | 15-180 | 15-195 | 15-210 | 15-225 | 15-240 |
| 16-160 | 16-176 | 16-192 | 16-208 | 16-224 | 16-240 | 16-256 |

TIHTUR 3

A

Pontir rawh —

| | | | | | |
|-----|---------------|-----|---------------|-----|----------------|
| 1 | 8×4 | 12 | 12×5 | 23 | 39×0 |
| 2. | 11×5 | 13 | 16×8 | 24 | 73×8 |
| 3 | 8×6 | 14 | 22×4 | 25 | 25×5 |
| 4 | 9×7 | 15 | 32×3 | 26 | 26×6 |
| 5 | 12×3 | 16. | 36×2 | 27 | 22×44 |
| 6 | 13×2 | 17. | 38×3 | 28 | 34×4 |
| 7 | 44×2 | 18 | 23×2 | 29 | 95×5 |
| 8. | 16×6 | 19 | 33×2 | 30 | 68×5 |
| 9. | 12×8 | 20 | 28×2 | 31 | 78×6 |
| 10. | 14×7 | 21 | 43×3 | 32. | 85×3 |
| 11. | 13×6 | 22. | 56×7 | 33 | 69×4 |

AW

Number kim lo hi dah khat rawh —

| | | | |
|----|-----------------------|-----|-----------------------|
| 1. | $7 \times \dots = 14$ | 8. | $\dots \times 5 = 35$ |
| 2. | $6 \times \dots = 30$ | 9. | $9 = 9 \times \dots$ |
| 3. | $8 \times \dots = 0$ | 10. | $4 \times \dots = 24$ |
| 4. | $5 \times \dots = 20$ | 11. | $7 \times \dots = 35$ |
| 5. | $45 = 5 \times \dots$ | 12 | $5 = \dots \times 5$ |
| 6. | $7 \times \dots = 7$ | 13. | $8 \times \dots = 40$ |
| 7. | $8 \times \dots = 24$ | 14. | $6 \times \dots = 18$ |

| | | | | | |
|----|------------|------------|----|------------|------------------|
| 15 | $7 +$ | 28 | 28 | $8 \times$ | $= 64$ |
| 16 | $30 -$ | $7 \times$ | 29 | $10 =$ | $5 \times$ |
| 17 | $0 =$ | $7 \times$ | 30 | $81 -$ | $\cdot \times 9$ |
| 18 | $6 \times$ | $= 54$ | 31 | $6 \times$ | $= 36$ |
| 19 | $7 \times$ | $= 14$ | 32 | $8 \times$ | $= 32$ |
| 20 | $8 =$ | $8 \times$ | 33 | $9 \times$ | $= 54$ |
| 21 | $8 \times$ | $= 16$ | 34 | $4 \times$ | $= 32$ |
| 22 | $5 \times$ | $= 40$ | 35 | $7 \times$ | $= 49$ |
| 23 | $7 \times$ | $= 63$ | 36 | $56 =$ | $8 \times$ |
| 24 | $48 =$ | $6 \times$ | 37 | $12 =$ | $\times 6$ |
| 25 | $18 =$ | $\times 9$ | 38 | $72 =$ | $\times 8$ |
| 26 | $7 \times$ | $= 42$ | 39 | $8 \times$ | $= 48$ |
| 27 | $\times 4$ | $= 28$ | 40 | $\times 9$ | $= 45$ |

B

- 1 Pariat hi pangain puntir rawh.
2. 11 hi 5-in puntir raw'.
- 3 Siwm leh pahnh pariata puntir ebhuck chu engzânge ?

- 4 7 hi ka puntir a, a chhuak chu 21 a ni.
Enginngae ka puntir ?
- 5 Sawmhi leh panga hi 4-in puntir rawh
- 6 8 hi 3-in puntir la, a chhuak chu pabnihin
puntir rawh
7. 6 hi 5-in puntir la, chu chu pathumin puntir
leh rawh.
- 8 Sawmhnihi leh pariat hi palun puntir rawh
- 9 42 hi 6-in ka puntir a, a chhuak chu eng
zatrige ?
10. 9 hi engin emaw ka puntir a, a chhuak chu
45 a ni a, eng number-in nge ka puntir?
- 11 Sawmkua leh pabnih hi parukin puntir rawh.
12. Eng number emaw 4-in ka puntir a, a
chhuak chu 24 a ni a, chu number chu eng-
nge ni ?

BUNG IV.

SEM

Entirna — Puntirna or hawk kân, sem thiam tak tak tûr chuan puntir hmun thiam phawt a tûl a ni Sem hi juntir dân nên a inleting blaub thurg a ni Thi engemawtia tam inzât theuhva hmun engemaw zâta sem rual theih dân a ni.

Hetiangan —

$$\frac{758 - 3}{252}$$

leh a chuang 2

Semah chuan a vei lam tâwp ațanga sem tan tûr a ni Semtu 3 khian 7 khi kan han sem tan phawt a, a sem tâwk chiah lo va, mahse a hmun dik teuh ber kan zawng a, chu chu 2 a ni. Pathum (3) hmun binh chu 6 a ni a, tichuan 7 ațangin 6 kan pah a, $(7-6=1)$ pakhat a lo chuang a, chu chu (3) pathum chuan a sem tham tawh lo va, 7 ding lam panga 5 chu kan la thia a, 15 a lo li a Chu chu 3 hmun 5 chiah a xi

a, 3 hmun 5 chu 15 a nih chiah avāngin a chuang a awm lo va, 5 ding lam parg 8 khi kau la loh ang a, kan sem leh ang. Figure pakhat aia tam lāk lo ngai ta sela, kan sem hma haub pawhin figure pakhat aia tam kan lāk zāt arg ang kha 0 (biai) dah phawt a ngai a ■ 8 chu 3 chuan a sem tawk chiah lo va, a tung teuh ber kan zawng ang a, chu chu a hmun 2 a ni a, 3 hmun 2 chu 6 a ni a Tichuan ($8-6=2$) 2 a chuang ta a, chu mī chuang chu a sem tham tawh lo va, ding lam pargah, a chhanna hmāwah, a semtu chungah kan dah thūn a ni, entirna ang khian

Sem hi pah tihtawina a ni kan ti thei bawh ang Entirna ang khian 758 hi 3-a sem tūr, tih chu, a awmzia chu 758 ah Lien 3 hi vaw arg zātuge pah chhuah theih, tihna ang a ni

Hriatreng tūr — Fom tih hi a semtuin a sem tūr sem ral tawk lo sela, a sem thei teuh ber zawng tūin, a sem tūr ann a tām zāk ngai tūr a ni.

Fraction an la xir loh avāngin a chuang rēng rēng pawh fraction-in dah loh tūr a ni. A chuang a awm pawhin entirna ang hian dahfir mai tūr a ni. (Fraction a dah dân rēng rēng hian tiht. tūr a ni xih lo.)

TIHTUR 4.

A

| | | | | | |
|---|------|----|------|----|-------|
| 1 | 12-4 | 10 | 22-2 | 19 | 84-7 |
| 2 | 21-7 | 11 | 46-2 | 20 | 88-8 |
| 3 | 15-5 | 12 | 33-3 | 21 | 96-8 |
| 4 | 42-6 | 13 | 84-4 | 22 | 364-2 |
| 5 | 24-8 | 14 | 76-4 | 23 | 633-3 |
| 6 | 54-9 | 15 | 75-5 | 24 | 884-4 |
| 7 | 12-1 | 16 | 72-6 | 25 | 152-2 |
| 8 | 18-3 | 17 | 91-7 | 26 | 136-4 |
| 9 | 27-3 | 18 | 72-9 | 27 | 565-5 |

AW

Number him lo li dah khet rawh —

| | | | | | |
|-----|-----|----|-----|------|----|
| 1 | ■ | =2 | 11 | 48— | =6 |
| 2. | 14- | =2 | 12 | 56— | =8 |
| 3 | 12— | =6 | 13 | 28— | =7 |
| 4 | —4 | =3 | 14 | 54— | =6 |
| 5 | 35— | =5 | 15 | ..-6 | =4 |
| 6. | 36— | =9 | 16 | —7 | =3 |
| 7. | —5 | =3 | 17. | 81— | =9 |
| 8 | —9 | =3 | 18 | 49— | =7 |
| 9 | 14— | =0 | 19. | 63÷ | =9 |
| 10. | 81— | =9 | 20. | 72— | =9 |

B

Sem rawh —

| | | |
|-------------------|------------------|--------------------|
| 1. $36-4$ | 14. $196-4$ | 27. $112-7$ |
| 2. $45 \div 5$ | 15. $370-5$ | 28. $110-5$ |
| 3. $996 \div 3$ | 16. $300-6$ | 29. $104-8$ |
| 4. $81-5$ | 17. $675-5$ | 30. $176-4$ |
| 5. $245-5$ | 18. $1010-2$ | 31. $115-5$ |
| 6. $342 \div 5$ | 19. $8401-6$ | 32. $119-7$ |
| 7. $108 \div 6$ | 20. $1688-8$ | 33. $168-12$ |
| 8. $294 \div 6$ | 21. $136-4$ | 34. $160-16$ |
| 9. $1000 \div 2$ | 22. $138-6$ | 35. $1648 \div 16$ |
| 10. $1000 \div 4$ | 23. $132 \div 4$ | 36. $1848-12$ |
| 11. $300 \div 5$ | 24. $136-8$ | 37. $1834 \div 13$ |
| 12. $162 \div 4$ | 25. $165-5$ | 38. $1898-13$ |
| 13. $40 \div 5$ | 26. $192 \div 6$ | 39. $840 \div 14$ |

CII

1. 396 hi 3-in sem rawh.
2. 248 hi 4-in sem ıla, engzátngé chhuak ang ?
3. Za leh sawmga leh panga hi pangain sem ıla, engzátngé chhuak ang ?
4. Zanga leh sawmthum leh panga hi pangain sem rawh.
5. Zasarh leh sáwm leh pah hi pasarihin sem rawh
6. Zathum leh sawmhnh leh pariat hi pariatin sem rawh
7. Parukin 726 hi sem ıla, engzátngé chhuak ang ?
8. 369 hi 9-in sem rawh.
9. Zah leh sawmga leh pakua hi pakua in sem rawh
10. Pathumin sángxhat leh zathum leh sawmhnh leh paruk sem rawh
11. Sángxhat leh zaruk leh sawmthum leh pahnh hi sáwm leh parukin sem rawh.
12. Sáwm leh pathumin sángxhat leh zathum leh sawmhnh leh paruk sem rawh.

BUNG V

(Tihâtâr bar denh zâwk)

TIHTUR 5

A

Belh rawh :—

| | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|
| 1. | 102 | 2. | 55 | 3. | 47 | 4. | 406 |
| | 18 | | 171 | | 189 | | 97 |
| | 33 | | 42 | | 230 | | 575 |
| | 106 | | 95 | | 5 | | 34 |
| 5. | 35 | 6. | 527 | 7. | 309 | 8. | 35 |
| | 24 | | 3 | | 5 | | 6 |
| | 739 | | 90 | | 26 | | 60 |
| | 6 | | 986 | | 482 | | 831 |
| | 209 | | 448 | | 5 | | |
| 9. | 4 | 10. | 80 | 11. | 331 | 12. | 239 |
| | 5 | | 270 | | 222 | | 254 |
| | 457 | | 7 | | 333 | | 267 |
| | 277 | | 52 | | 444 | | 26 |
| | | | 706 | | 555 | | 8 |

AW

Paib rawh .—

| | | | |
|----|-----------|----|------------|
| 1 | 547— 204 | 6 | 5376—2077 |
| 2 | 8674—3578 | 7 | 8949—3557 |
| 3 | 8974—3507 | 8 | 6602—3566 |
| 4 | 896 - 350 | 9. | 45064—7976 |
| 5. | 6475—3246 | 10 | 8000— 376 |

B

Puntir rawh —

| | | |
|------------------|---------------------|-----------------------|
| 1. 86×5 | 8. 41×8 | 15. 384×12 |
| 2. 57×4 | 9. 53×9 | 16. $7(82 \times 10)$ |
| 3. 95×3 | 10. 78×8 | 17. 380×12 |
| 4. 89×4 | 11. 145×12 | 18. 157×14 |
| 5. 67×3 | 12. 377×11 | 19. 580×16 |
| 6. 37×6 | 13. 120×16 | 20. 325×15 |
| 7. 39×7 | 14. 242×15 | 21. 1780×12 |

CH

Sem rawh :—

| | | |
|-----------------|-------------------|-------------------|
| 1. $48 - 2$ | 8. $630 - 3$ | 15. $294 - 14$ |
| 2. $63 \div 3$ | 9. $432 - 8$ | 16. $360 \div 15$ |
| 3. $56 - 4$ | 10. $711 - 9$ | 17. $1494 \div 6$ |
| 4. $75 \div 5$ | 11. $372 - 12$ | 18. $1188 \div 9$ |
| 5. $84 \div 6$ | 12. $800 \div 16$ | 19. $1256 \div 8$ |
| 6. $182 - 7$ | 13. $567 - 9$ | 20. $1277 \div 7$ |
| 7. $264 \div 8$ | 14. $944 \div 8$ | 21. $1380 \div 5$ |

BUNG VI.

TIHTUR 6. (Tiaréng)

- 1 A thuin ziak rawh 15, 24, 105, 98
146, 196, 120
2. 25, 124, 101, 161 hi belb rawh
- 3 Figure-in ziak rawh —
 - (1) Sawmsarih leh pahnih.
 - (2) Za leh sawm leh pakua.
 - (3) Zahnih leh sawm leh panga.
 - (4) Za leh pasarih.
 - (5) Zahnih leh sawmthum leh pall.
- 4 675 atengin sawmkua leh pariat pah rawh.
- 5 384 hi 16-in sem rawh.
6. Zahnih leh sawmli leh panga hi pasarihin sem rawh.

- 7 638-ah hian 290 pahh ila, engzátngé la bâng eng !
- 8 124 hi 15-in puntir rawh
- 9 Zahoih leh sawmthum leh pasharh hi 12-in puntir rawh.
- 10 Sangkhat leh zathum^h leh sawmthum leh pakua hi 13-in sem rawh.

INDIA TANGKA

| | | | | | | |
|-------|---|---|-----|------|-------|------|
| Chéng | 1 | = | 100 | Nala | paise | (nP) |
| Doli | 1 | = | 50 | " | " | |
| Siki | 1 | = | 25 | " | " | |
| | | | 10 | " | " | |
| | | | 5 | " | " | |
| | | | 2 | " | " | |
| | | | 1 | " | " | |

BUNG VII

TANGKA BELH.

Entirna — Rs. nP.

5 64

14 36

20 22

40 22

Naya paise 100 zél kba Re. 1 a ni mai a, chuvángin Rs leh nP thlûr hnihin a kal dawn a, 100 (20) a tlin veleh chéng a lo ni mai zél ang.

NP "pa" hmuna mi khi kan belh a, $4+6+2=12$ a ni a 1 kan kalpui a, "pa" hmunah 2 kan dah a. nP "saw" hmuna mi kan belh leh a, $6+3+2=11$ a lo bi a, kalpui 1 nèn $11+1=12$ a lo ni a Tin, 2 kba kan dah a, 1 kba chéng hmunah kan kalpui leh ta a ni.

Paibah leh semah pawh hetlâng zél hian a sabi chin chauh khân then zél a ni ang.

TINTUR

Belh rawh:— A

| np | np. | np | np. |
|-------|--------|--------|--------|
| 1. 16 | 2. 18 | 3. 17 | 4. 26 |
| 13 | 21 | 33 | 15 |
| 5. 19 | 6. 18 | 7. 36 | 8. 10 |
| 23 | 24 | 26 | 24 |
| 9. 20 | 10. 10 | 11. 11 | 12. 11 |
| 25 | 11 | 25 | 28 |

AW

| np. | | np | | np | |
|--------|----------------|-------|---------------|-------|------------------|
| 1 | 62 36 | 2 | 25 54 | 3 | 23 65 |
| 4 | 77 23 | 5. | 39 54 | 6 | 25 59 |
| Rs np. | | Rs np | | Rs np | |
| 7. | 10· 17 6 18 | 8. | 12 25 5 18 | 9. | 15· 26 10· 33 |
| 10. | 16 19 22 44 | 11 | 13 10 4 27 | 12. | 9· 10 4 06 |

B

| | | | | | |
|----|---------------------------|-----------------|--------------------------|-----|----------------------|
| 1. | 13· 54 26· 41 23 21 | 5. | 10 86 6 01 2 60 | 9. | 1 86 2 73 1 23 |
| 2 | 25 18 34 23 62· 30 | 6 | 2· 11 7 28 2 33 | 10 | 1 46 2 36 1 23 |
| 3. | 16· 10 33 06 27 26 | 7. ^v | 29 31 18· 09 43 33 | 11. | 2 22 3 15 1 35 |
| 4. | 2· 42 3 20 6 46 | 8 | 1 36 2· 24 2 02 | 12. | 2 15 1 35 2 25 |

BUNG VIII

TANGKA PAIH

Entirna —

Paih rawh Rs. 24·15—Rs. 12 27

Rs. np.

24· 15—

12 2711· 88

5 nP atang huan 7 a paish theih loh avāngin
 nP sām hmuna mī 1 (sawmkbāt) kan pūk a.
 Tichuan 15 atanga 7 kan paish chuan 8 a la awm
 a, 8 hī kan dah a NP sām hmun atangin 1
 kan lāk tawh avāngin nP 0 hmun atangin 2 nP
 paish tūr a ni a 0 atangin kan paish theih loh
 avāngin chēng hmuna mī 10 kan pūk a. Tichuan
 10 atanga 2 paish (10 - 2) chuan a bāng chu 8 a
 ni a. Tichuan 8 hī kan dah ang Chutiāng zēlin
 chēng hmuna 4 ami 1 kan pūk tawh avāngin, 3
 atanga 2 paish chu 1 a ni a. Tin, 2 atanga 1
 kan paish chuan 1 a la awm ang.

Tichuan a pum pala paih chhuak zawng chu
Rs. 11. 88nP. a ni.

Tih dân dang :—

NP. 15 atangin nP. 27 paih theih a nih loh
avângin chéng hmuna mi 1 kan pûk ang a, chu
chu 100 nP a lo ni.

Tichuan nP. $(100+15) = 115$ atangin 27 kan
paih a, a chhuak chu 88 a ni. Tin, Rs 4 atang
khân 1 kan pûk tawh avângin 3 atang hian 2
kan paih chuan 1 a ni a. Tin, Rs. 2 atanga 1
kan paih chuan 1 a la bâng leh a ni.

Tichuan a pum puia paih chhuak chu
Rs. 11 88 nP. a ni. Chutiang zêlin—

TEHTUR 3.

A

Paih rawh :— (Rilru ohhiarkawpa tih hmasak tûr)

| | | | | | | | |
|-----|----------|-----|----------|-----|----------|-----|----------|
| | np. | | np. | | np. | | np. |
| 1. | 6 3 | 2. | 7 4 | 3. | 9 2 | 4. | 10 8 |
| | np. | | np. | | np. | | np. |
| 5. | 11 8 | 6. | 16 5 | 7. | 12 4 | 8. | 13 7 |
| | np. | | np. | | np. | | np. |
| 9. | 21 12 | 10. | 32 25 | 11. | 35 27 | 12. | 54 45 |
| | np. | | np. | | np. | | np. |
| 13. | 46 37 | 14. | 75 57 | 15. | 66 59 | 16. | 87 69 |
| | np. | | np. | | np. | | np. |
| 17. | 95 38 | 18. | 78 69 | 19. | 95 89 | 20. | 97 79 |
| | np. | | np. | | np. | | np. |
| 21. | 88 69 | 22. | 68 59 | 23. | 98 89 | 24. | 93 27 |
| | np. | | np. | | np. | | np. |
| 25. | 97 29 | 26. | 83 39 | 27. | 78 59 | 28. | 91 89 |

I W

Paih rawh.—

| | | |
|-----------------------------------|----------------------------------|-----------------------------------|
| 1. Rs. nP. 16. 25 14 36 | 2. Rs. nP. 35 44 27. 34 | 3. Rs. nP. 42. 32 33. 16 |
| 4. Rs. nP. 35. 72 24. 80 | 5. Rs. nP. 56. 72 37. 09 | 6. Rs. nP. 65 37 58 19 |
| 7. Rs. nP. 75. 16 70. 25 | 8. Rs. nP. 67 43 65 08 | 9. Rs. nP. 81. 93 18 39 |
| 10. Rs. nP. 125. 42 74 26 | 11. Rs. nP. 105 12 25. 09 | 12. Rs. nP. 92. 33 16 75 |
| 13. Rs. nP. 214 32 45 26 | 14. Rs. nP. 226 34 108 27 | 15. Rs. nP. 186. 32 174. 25 |
| 16. Rs. nP. 354 27 351. 18 | 17. Rs. nP. 256 19 158 10 | 18. Rs. nP. 345 77 150. 29 |
| 19. Rs. nP. 542. 27 506. 19 | 20. Rs. nP. 455. 36 447 26 | 21. Rs. nP. 516. 37 309. 99 |

BUNG IX.
TANGKA PUNTİR

Entirna Puntir rawh — Rs 125.72 × 6

$$\begin{array}{r} \text{Rs nP} \\ 125\ 72 \times 6 \\ \hline 754.32 \end{array}$$

NP. 2 hi 6-a puntir chuan 12 a ni a 2 kha pa hmuah kan dah a, 1 kan kalpui a. 7 hi 6-a kan puntir chuan 42 a ni a, kalpui nèn 43 a ni. 3 hi kan dah a, 4 (sawmli) hi chông hmuah kan kalpui a.

Rs 5 kha 6-a kan puntir chuan 30 a ni a, kalpui nèn 34. 4 kha kan dah a, 3 kan kalpui a. Tichuan 2 kha 6-a kan puntir chuan 12 a ni a, kalpui nèn 15 a lo ni. 5 kan dah a, 1 kan kalpui a. Tichuan 1 kha 6-a kan puntir chuan 6 a ni a, kalpui nèn 7 a lo ni.

Tichuan puntir ohhuak chu Rs. 754.32 nP. a lo ni. Chutiang zêh.

Chhinchhih tûr — (1) NP ringawt kha a
 branin la ða nP 72 hi 6-a kan puntir chuan—
 $72 \times 6 = 432$ a ni Hei hi chêngah kan chantir
 chuan 100-in kan sem ang a Tichuan a vaw 4-
 ah 32 a chuang a, tichuan 32 kha nP hmunah
 kan dah a, 4 kha chêng hmunah kan kalpui ang

(2) A chbaka mi $72 \times 6 = 432$ nP, khi chênga
 kan chantir chuan, za bi chin apiang lak tûr a
 ai a Sawn bi chin zêl chaub khi nP, hmuna
 kal tûr a ni mai (Hetiangin— $4 \cdot 32$ chu
 Re 4 32 nP tihua a ni mai)

TIHTUR 9.

A

Puntir rawh.—

| | | |
|-----------|-----------|-----------|
| 1. Rs np. | 2. Rs np. | 3. Rs np. |
| 2 22×4 | 9 14×5 | 13 25×3 |

| | | |
|-----------|-----------|-----------|
| 4. Rs np. | 5. Rs np. | 6. Rs np. |
| 12 25×4 | 14 16×8 | 14 22×5 |

| | | |
|-----------|-----------|-----------|
| 7. Rs np. | 8. Rs np. | 9. Rs np. |
| 11 18×3 | 21 14×7 | 14 09×8 |

| | | |
|-----------|------------|------------|
| 10 Rs np. | 11. Rs np. | 12. Rs np. |
| 9 12×7 | 14 15×5 | 18 12×9 |

| | | |
|------------|------------|------------|
| 13. Rs np. | 14. Rs np. | 15. Rs np. |
| 12 12×8 | 13 14×7 | 14 11×6 |

| | | |
|------------|------------|------------|
| 16. Rs np. | 17. Rs np. | 18. Rs np. |
| 15 18×5 | 13 19×6 | 15 16×9 |

AW

Puntir rawh —

| | | |
|----------------------------|----------------------------|----------------------------|
| 1. Rs. np. 14 16 × 5 | 2. Rs. np. 19 14 × 6 | 3. Rs. np. 19 24 × 4 |
| 4. Rs. np. 24 12 × 12 | 5. Rs. np. 15 14 × 13 | 6. Rs. np. 24 12 × 15 |
| 7. Rs. np. 85 23 × 11 | 8. Rs. np. 42 24 × 15 | 9. Rs. np. 54 45 × 9 |
| 10. Rs. np. 64 32 × 12 | 11. Rs. np. 48 54 × 13 | 12. Rs. np. 124 32 × 15 |
| 13. Rs. np. 134 27 × 11 | 14. Rs. np. 146 65 × 10 | 15. Rs. np. 176 75 × 9 |
| 16. Rs. np. 116 74 × 14 | 17. Rs. np. 105 27 × 16 | 18. Rs. np. 215 74 × 15 |

BUNG X. TANGKA SEM

Entirna :— Sem rawh— Rs 185 52np —12

$$\begin{array}{r} \text{Rs. np.} \\ 12)185 \cdot 52 \\ \hline 15 \quad 46 \end{array}$$

Sem dân pângngais sem mai a ni 18 hi 22-
a kan sem chuan, a vaw khatah 6 a chuang a.
Tin, 5 khi kan la thla ang a, 65 a lo ni a 12-in
a thng teth ber a vaw 5 a ni a Tin, 5 a
chuang leh a. Chêng hmuna mun a daih ták loh
avângin nP. hmuna ni 5 khi kan la leh a, 55 a
lo a. Chu chu 12-a kan sem chuan a vaw 4-
ah 7 a chuang a. Tin, 2 kan la leh a, 72 a ni
ni a. Chu chu 12-a kan sem chuan a vaw 6
chiah a ni. Tichuan a sem chhuak chu Rs. 15
46 np. a ni.

$$\text{Chu chu Rs } 185 \cdot 52\text{np.} \div 12 = \text{Rs } 15 \cdot 46\text{np.}$$

TIHTUR 10

A

Sem rawh —

| | | |
|----------------------------------|---------------------------------|------------------------|
| 1 ^c Rs np 4 8-4 | 2 ^c Rs np 15 10-5 | 3. Rs np 18 12-5 |
| 4 ^c Rs np. 24 16-8 | 5 Rs np 27 45-9 | 6 Rs np. 33 42-3 |
| 7. Rs np 45 35-5 | 8 J ^c np 49 77-7 | 9 Rs np. 88 40-5 |
| 10. Rs np 84 27-7 | 11 Rs np 96 32-8 | 12. Rs np 95 65-5 |
| 13. Rs np. 128 96-8 | 14. Rs np 136 72-9 | 15. Rs np. 147 91-7 |
| 16. Rs np. 145 75-5 | 17. Rs np. 186 96-6 | 18. Rs np 198 72-9 |

AW

Sem rawh —

| | | |
|--------------------------|--------------------------|-------------------------|
| 1. Rs. np. 96 72-8 | 2. Rs. np. 72 54-9 | 3. Rs np 147 49-7 |
| 4. Rs. np. 48 96-12 | 5. Rs np 91 78-13 | 6. Rs np 70 84-14 |
| 7. Rs np. 90 45-15 | 8. Rs np 125 40-12 | 9. Rs np. 119 90-13 |
| 10. Rs np. 148 80-16 | 11. Rs. np 133 98-11 | 12. Rs np 244 92-12 |
| 13. Rs. np. 425 25-15 | 14. Rs. np. 118 86-14 | 15. Rs.np. 182 25-15 |
| 16. Rs. np. 192 96-16 | 17. Rs. np. 294 56-14 | 18. Rs.np. 289 60-16 |

THTUR 11

- 1 Rs 22 44np leh Rs 12 38np hi belh rawh.
2. Chéng sawmthum leh pah leh nP sawmnga leh chéng sáwm leh paruk leh nP sawmnga leh pahnih hi belh rawh.
3. Rs 142 18np atang hian Rs 140 28np pah rawh
- 4 Chéng sawmriat leh nP sawmriat atang hian chéng sawmsarih leh nP sawmkua pah rawh
- 5 Rs. 72 15np atang hian chéng sawmnga leh panga leh nP 25 pah rawh
- 6 Rs 115 15np hi parukin puntir rawh
- 7 Puntir rawh , Rs 76 45np \times 12
- 8 Sáwm leh parukin chéng sawmbnih leh panga leh nP sawmthum leh pahnih puntir rawh
- 9 7-in Rs 224 91np hi sem rawh
- 10 Rs 185 76np hi pariatin sem rawh
- 11 Sáwm leh pah-in chéng za leh sáwm leh pariati leh nP sáwmriat leh paruk hi sem rawh.
- 12 Rs 156 45np hi Rs. 150 75 ai hian engzatín nge a tam !

